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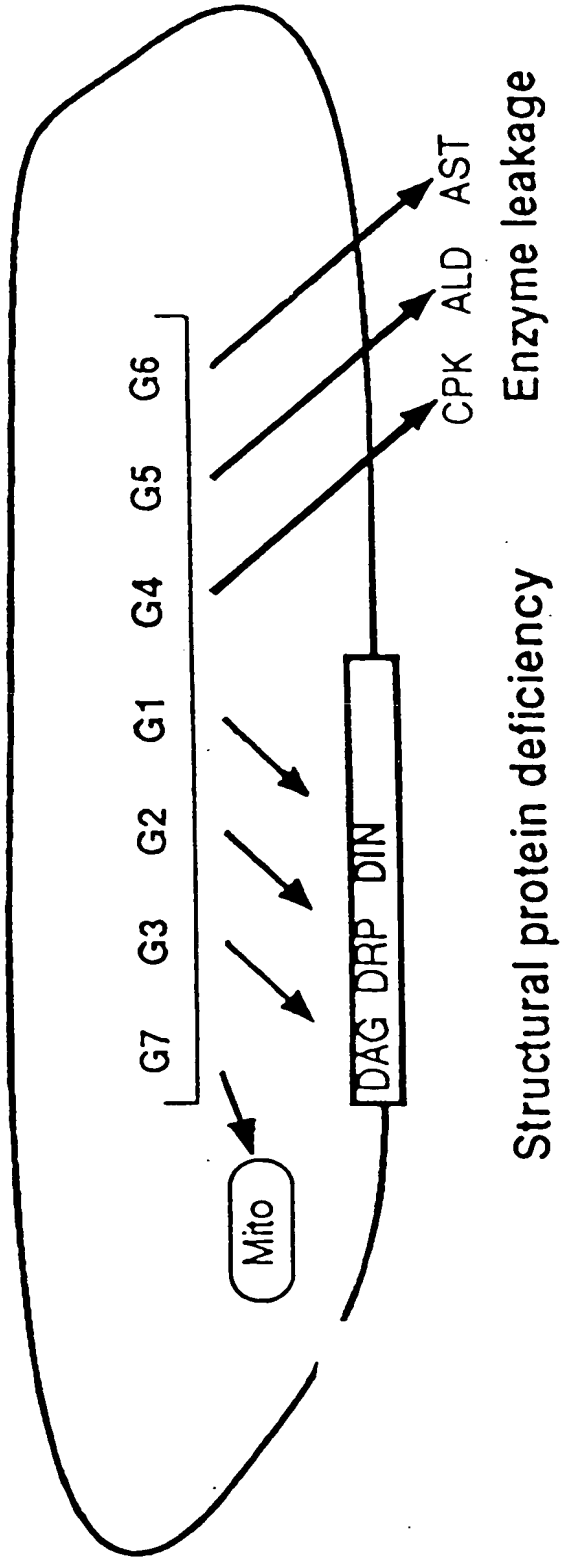


FIG. 1

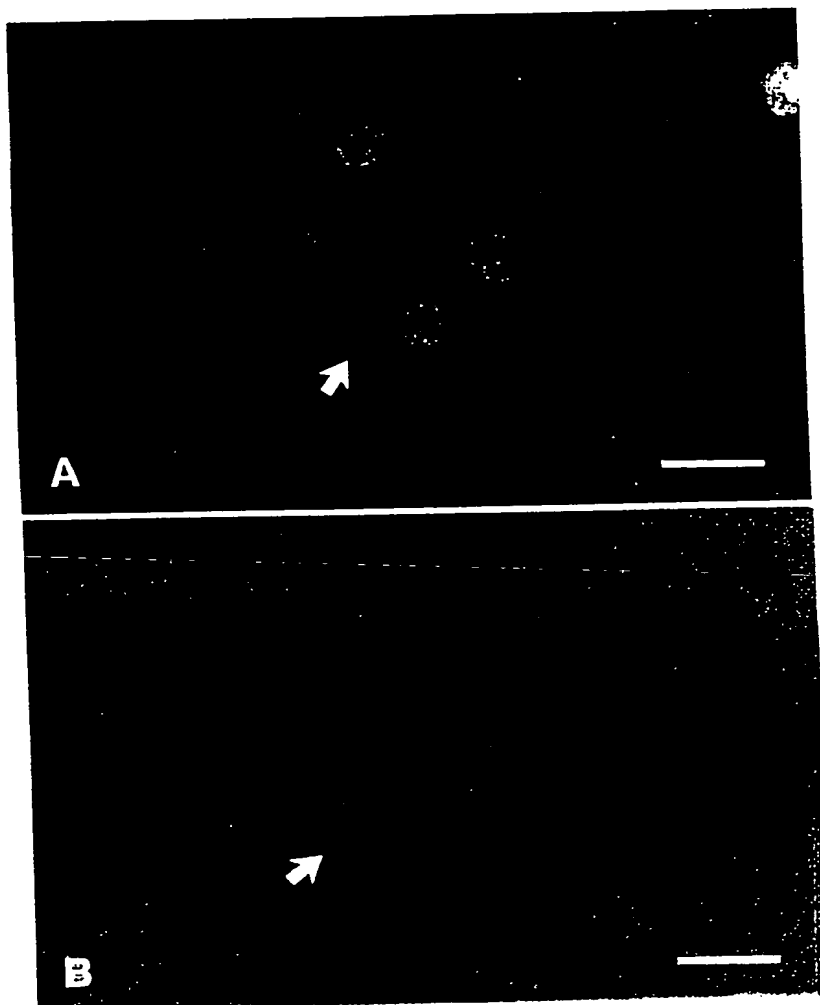
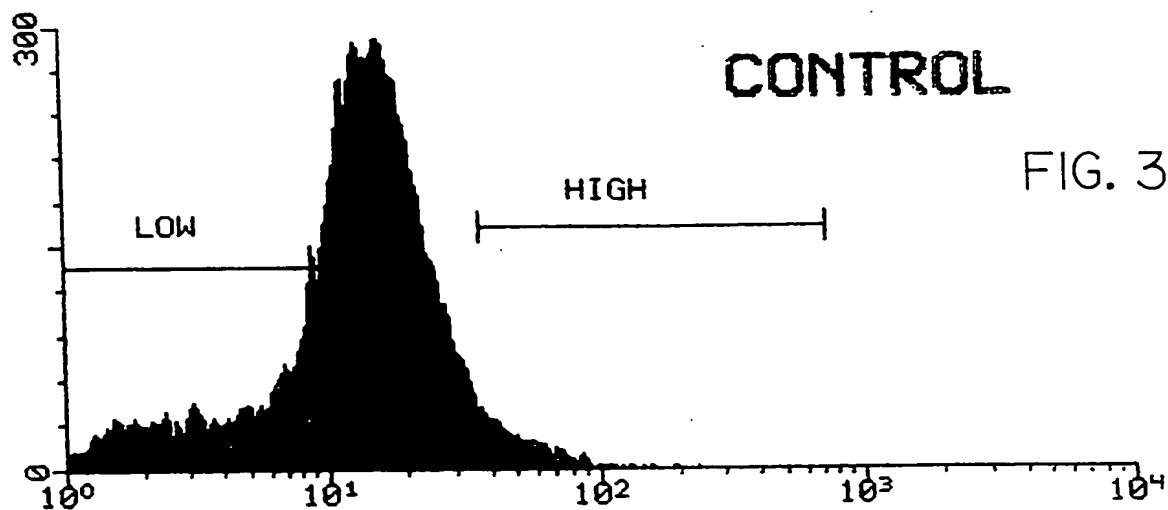
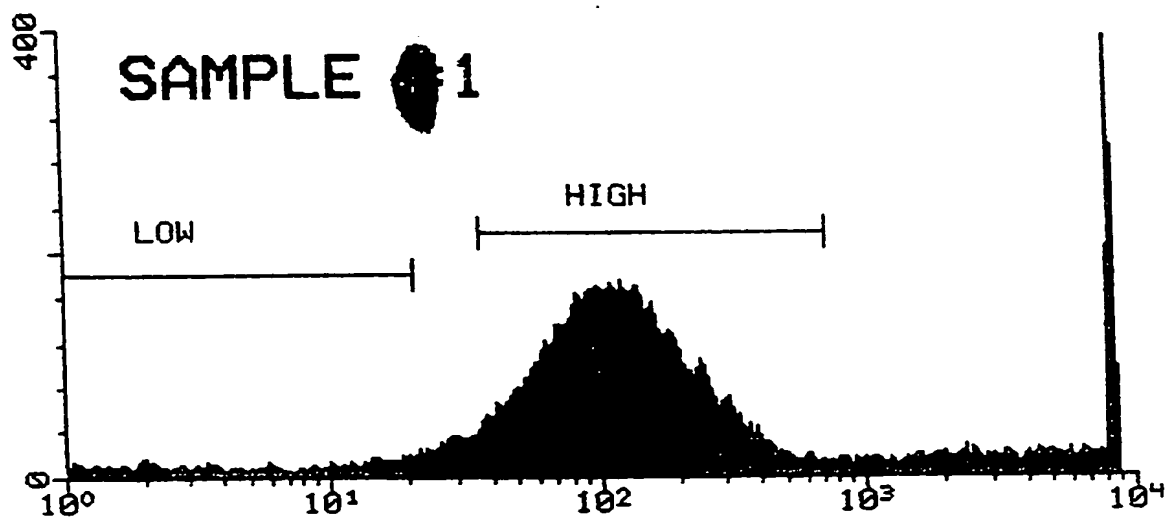


FIG. 2

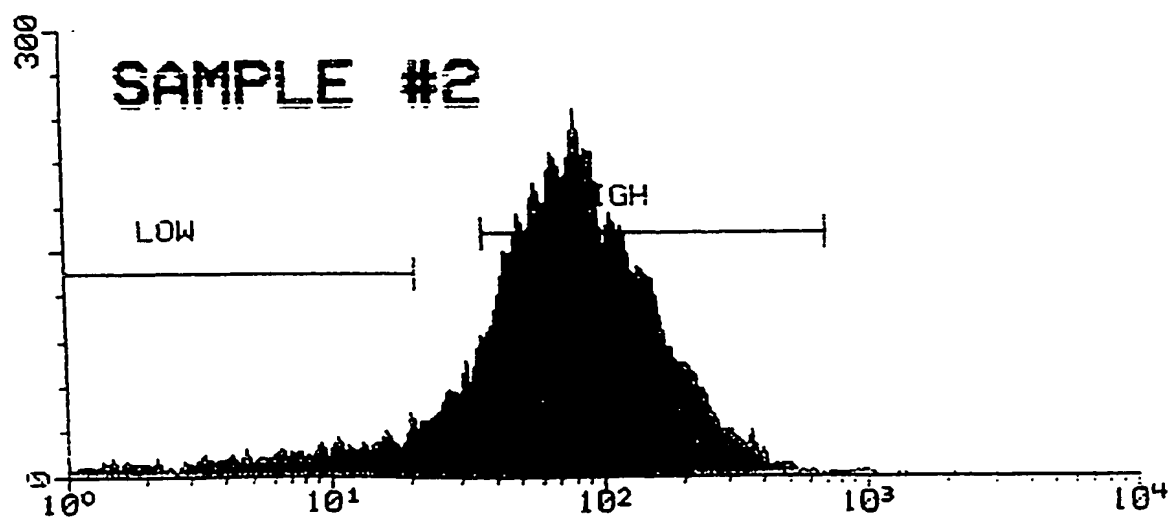
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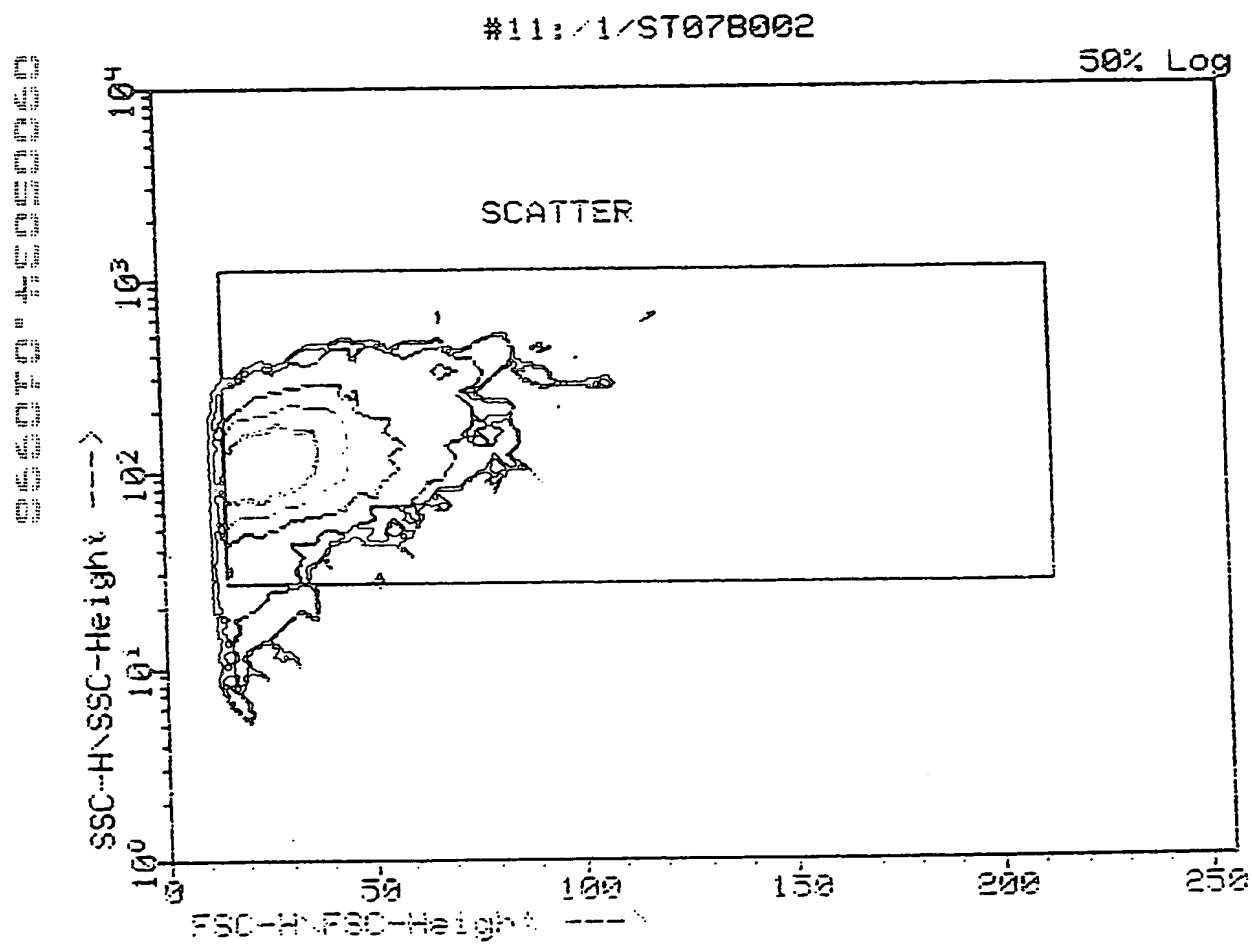


FIG. 4

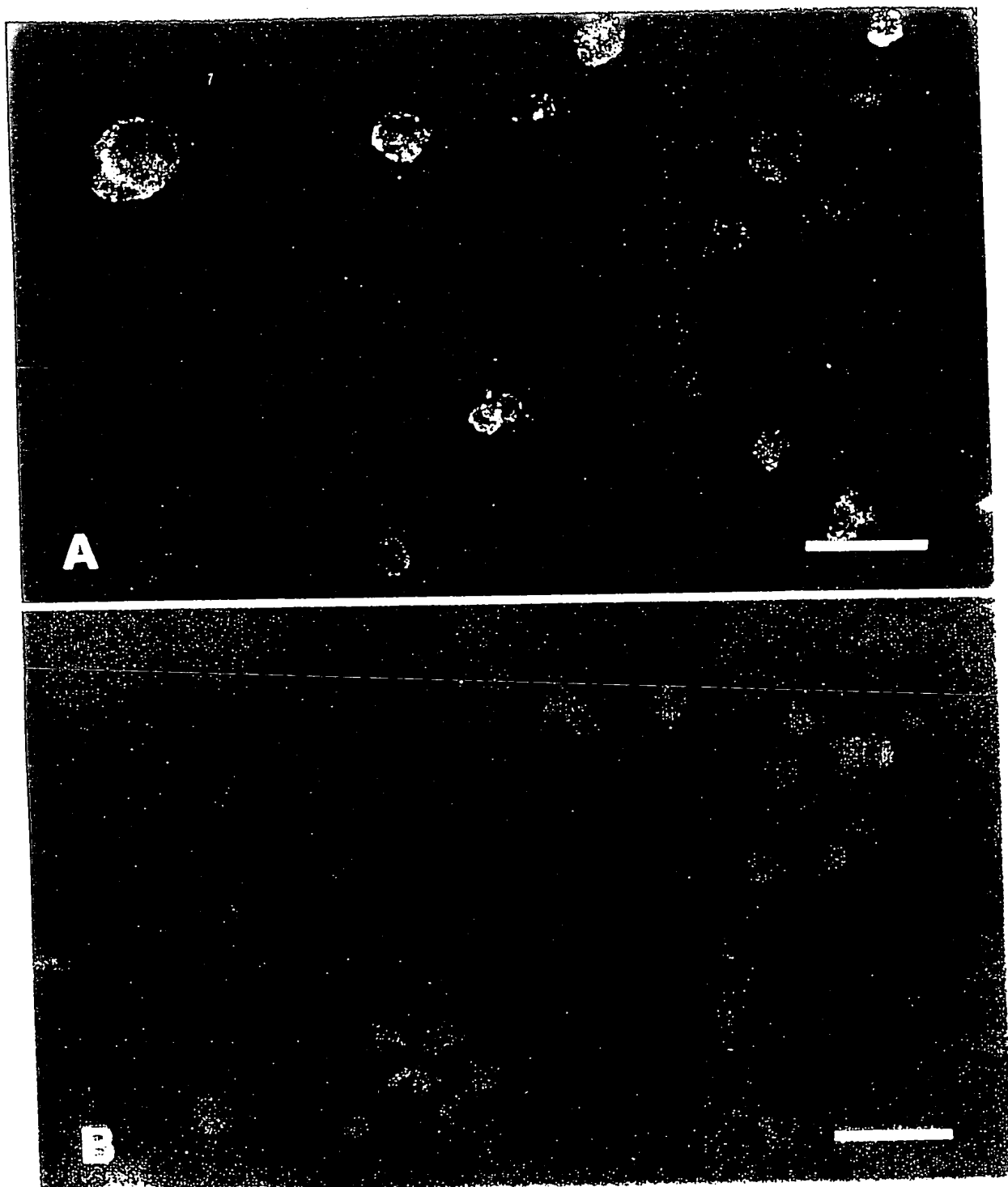


FIG. 5

ANGLE OF INJECTION DETERMINES MYOBLAST DISTRIBUTION $A > B > C > D$



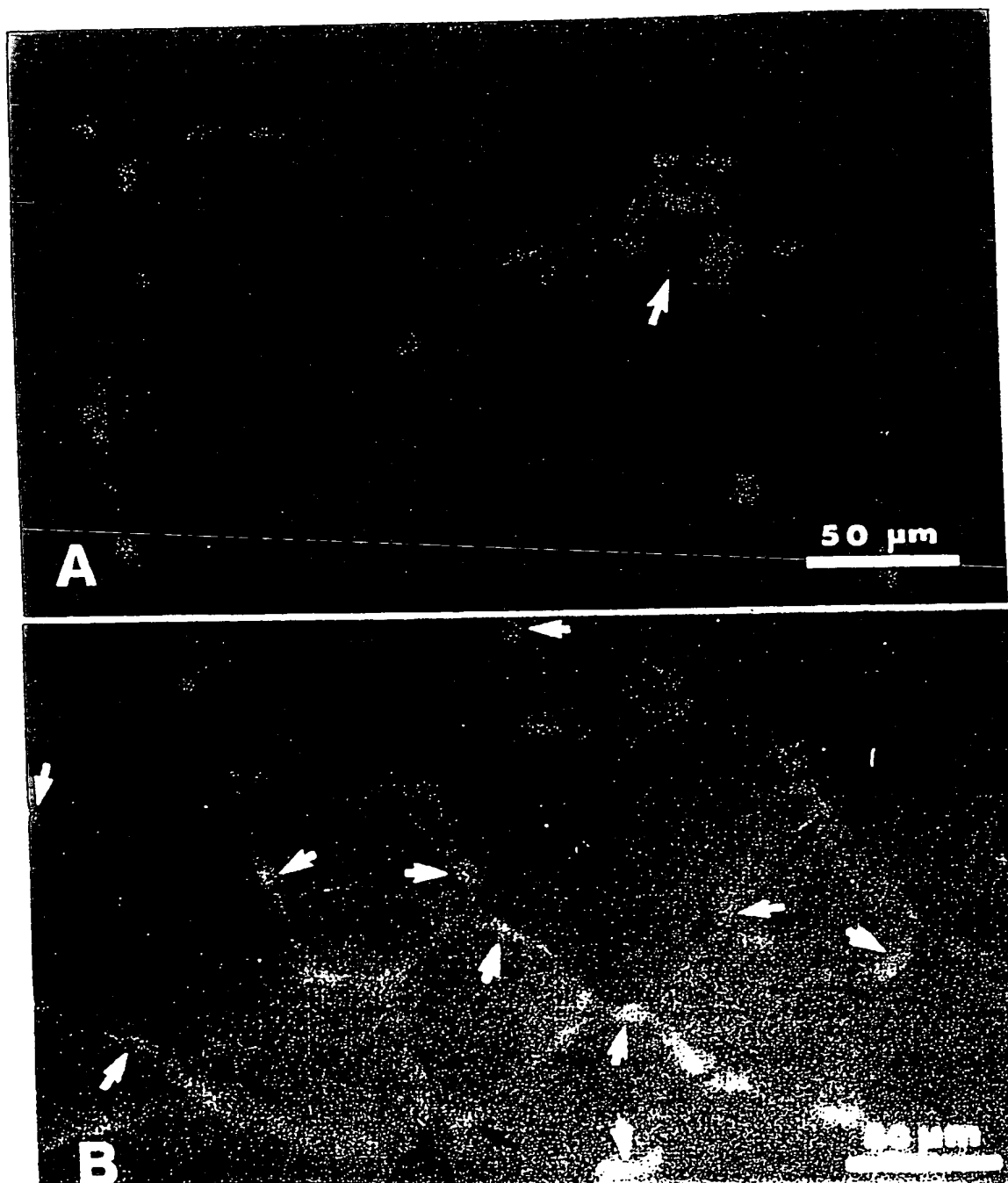


FIG. 7

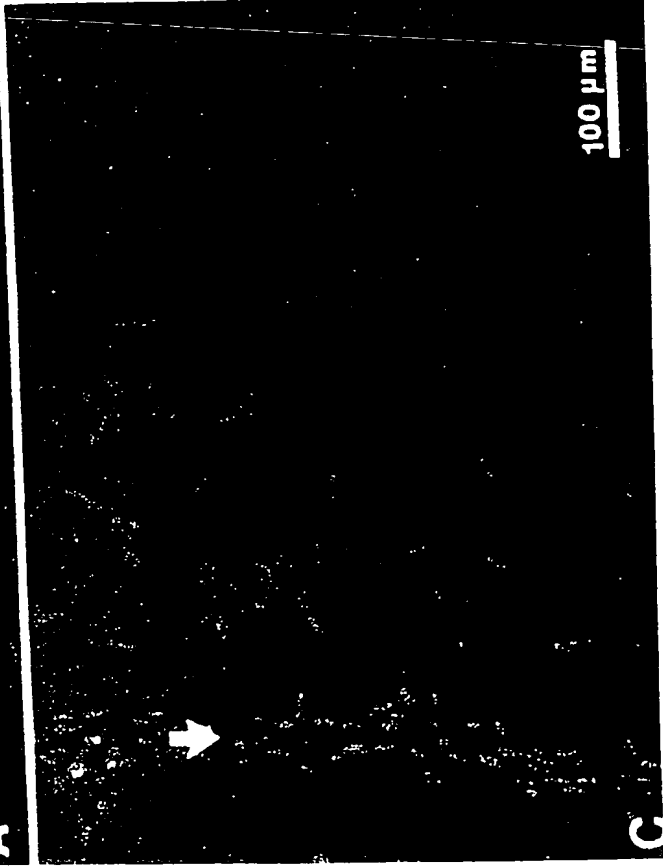
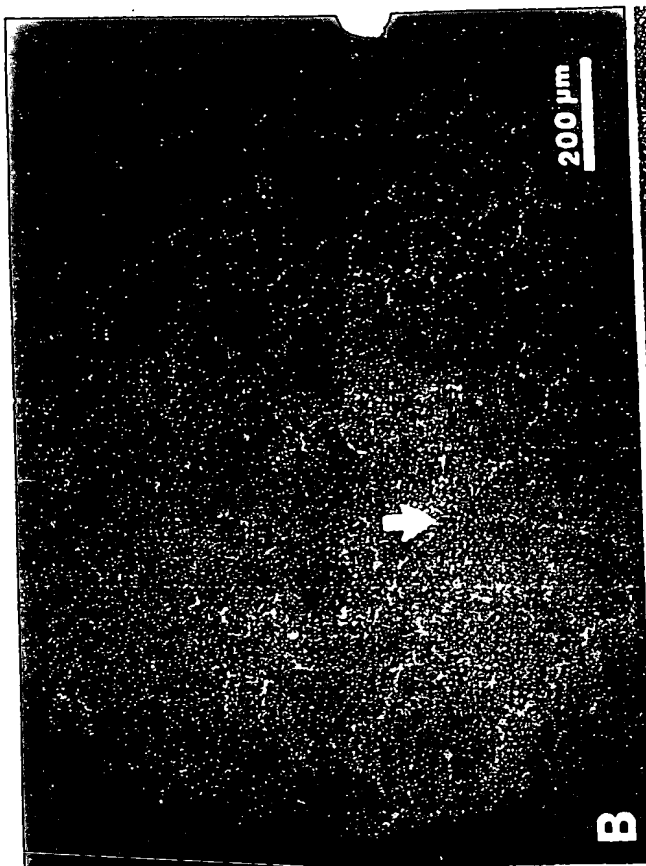
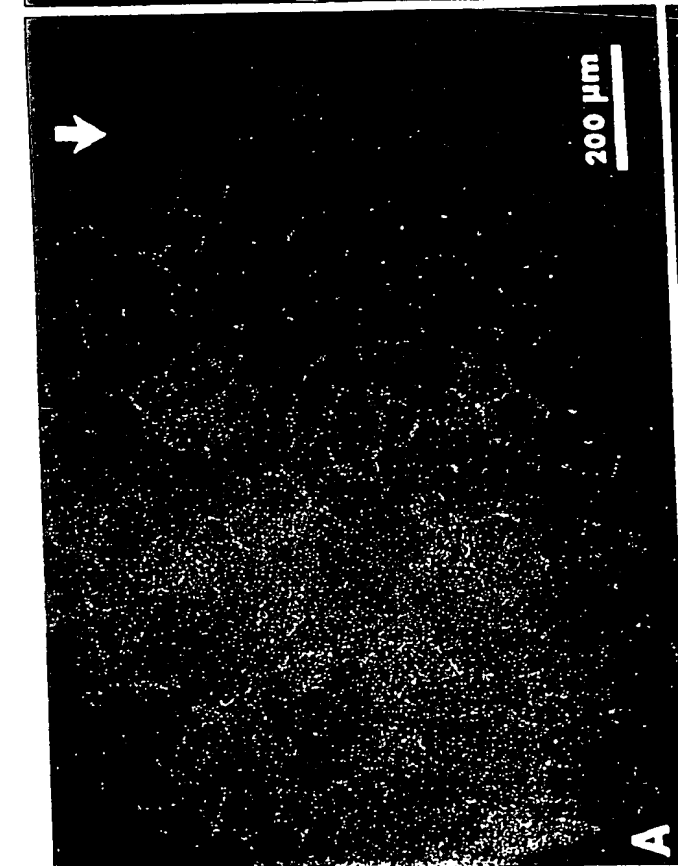


FIG. 8

PRODUCTION OF ALLOPHENIC TWINS

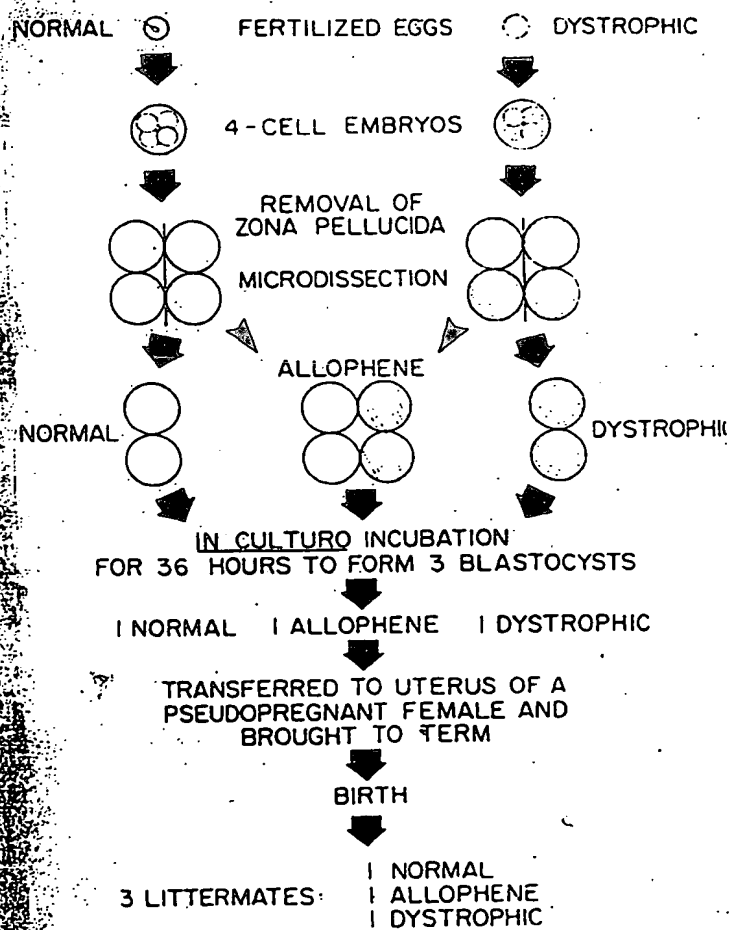


FIG.9



FIG. 10

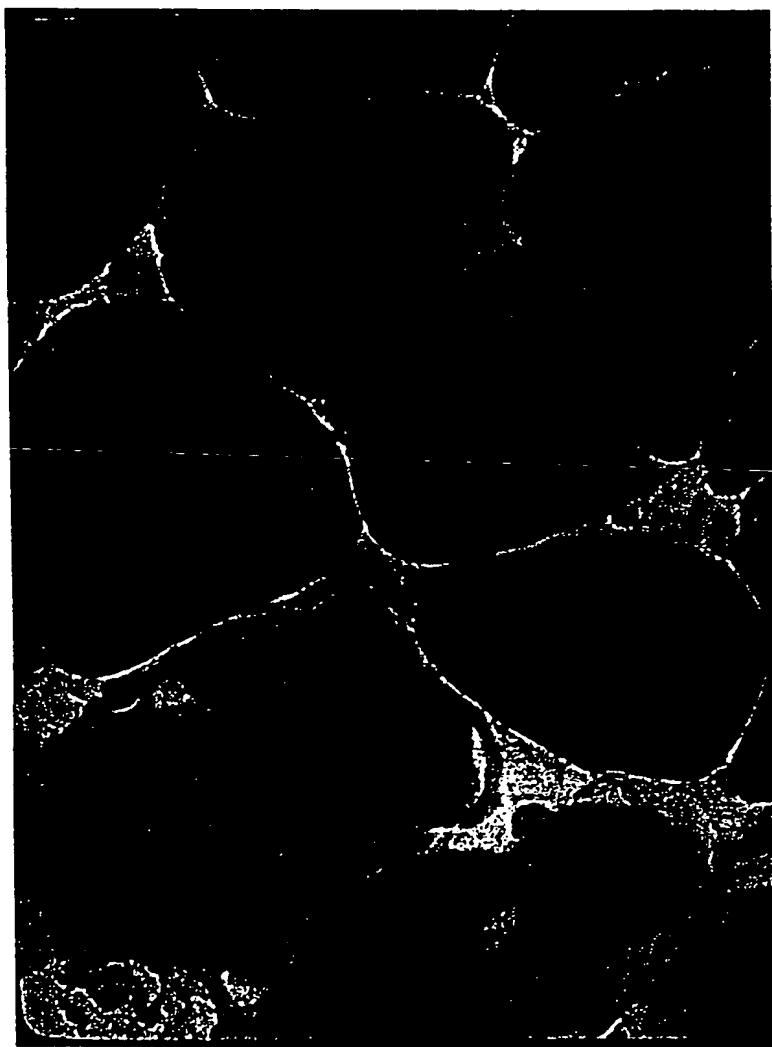


FIG. 12

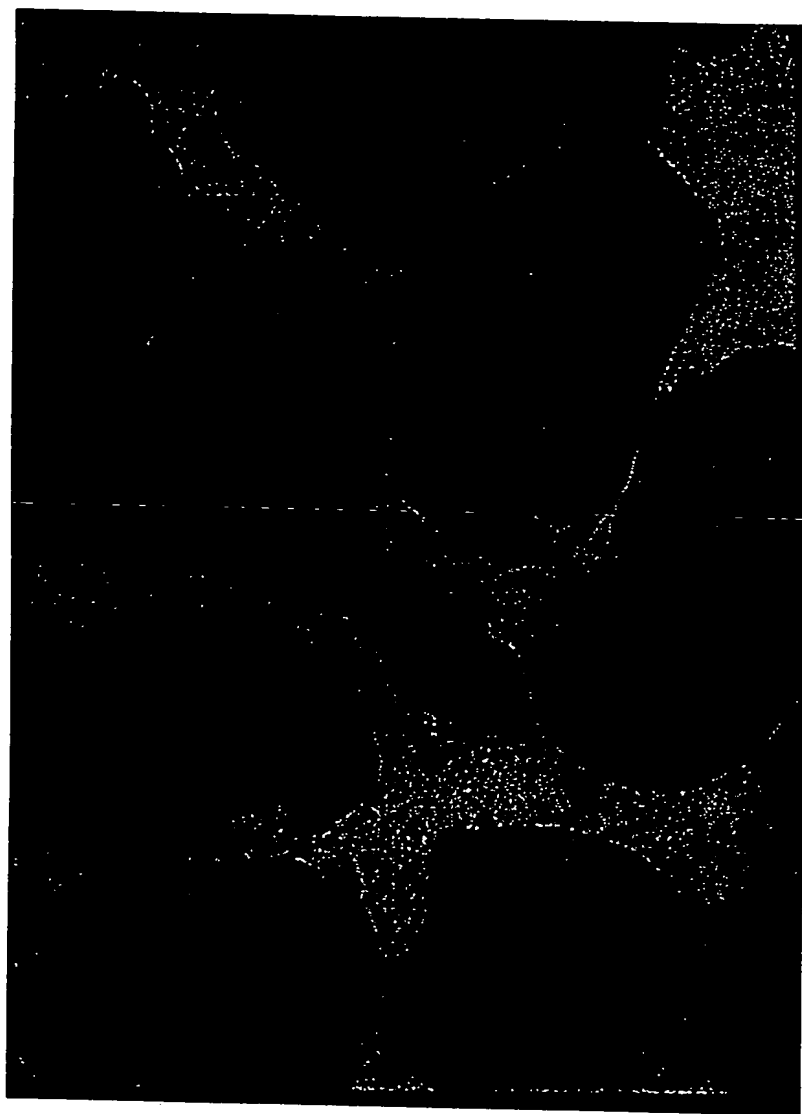


FIG. 13

Instrument components

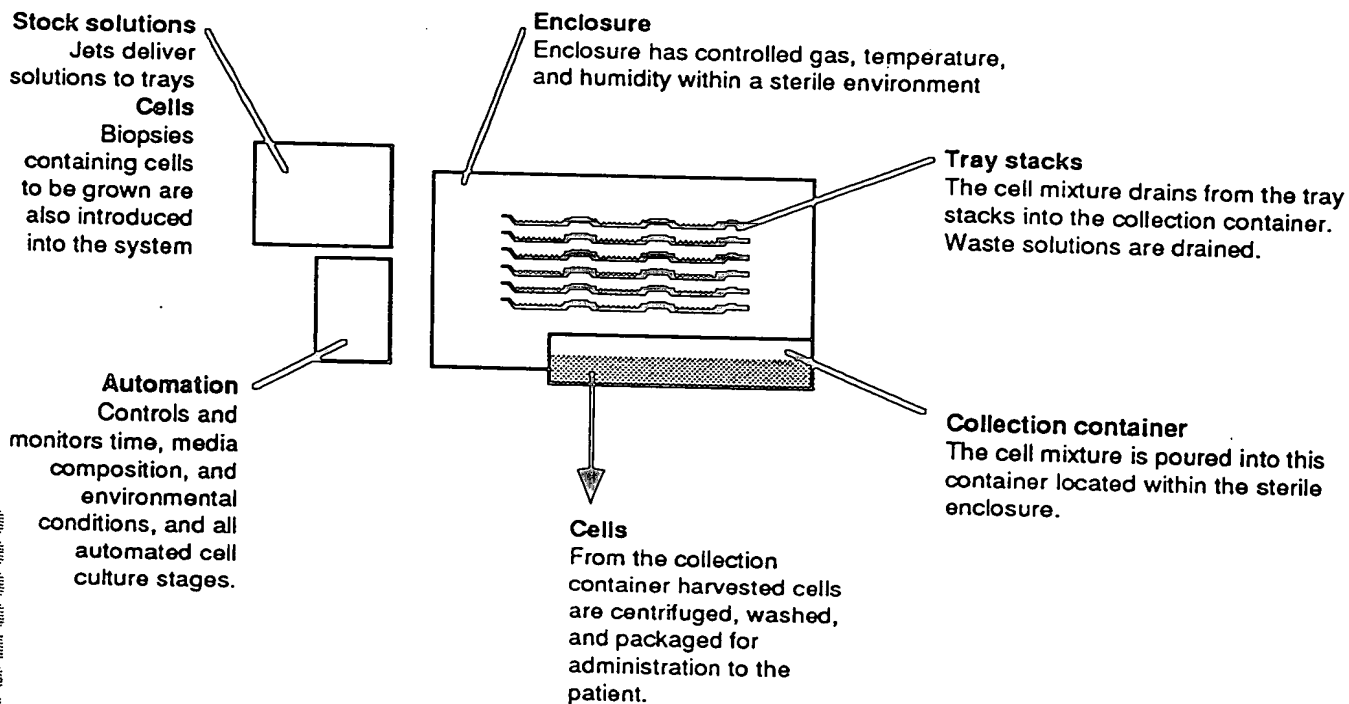
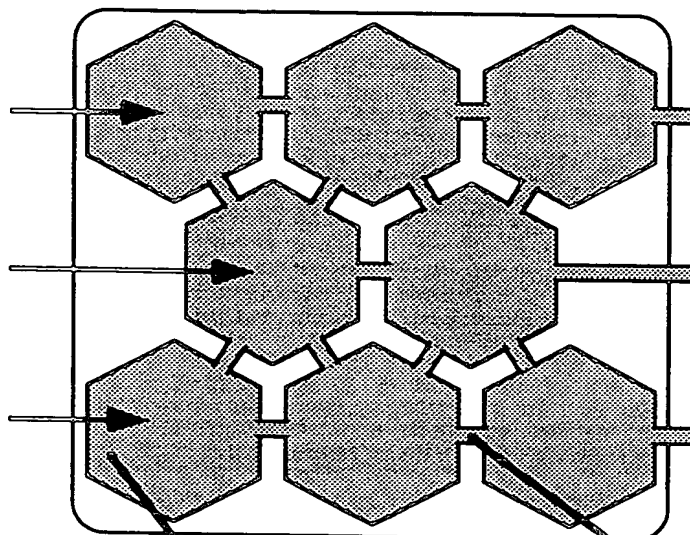


FIG.14

Culture trays

Top view

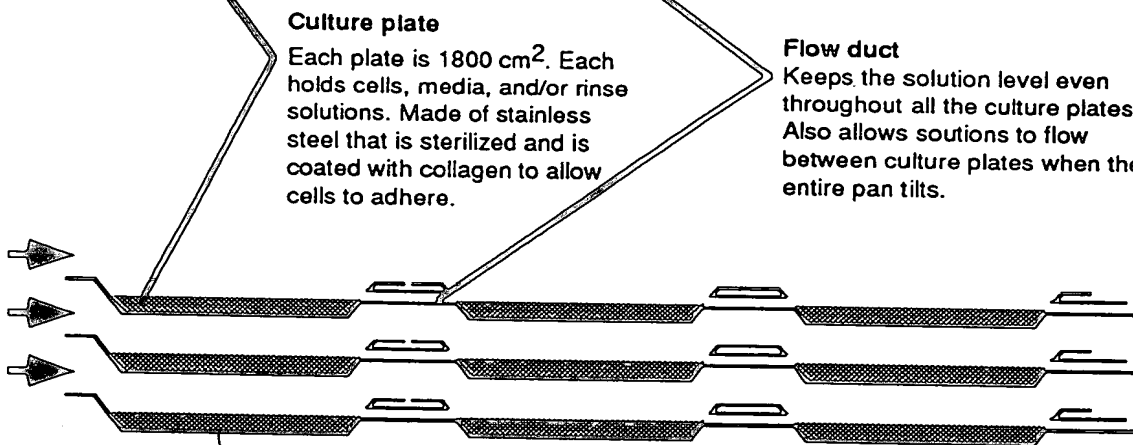
Jets
Inject solution onto culture plates



Drainage
Solutions from culture plates are either collected or discarded.

Side view

Jets
Inject gases and solution onto culture plates



Culture plate
Each plate is 1800 cm². Each holds cells, media, and/or rinse solutions. Made of stainless steel that is sterilized and is coated with collagen to allow cells to adhere.

Flow duct
Keeps the solution level even throughout all the culture plates. Also allows solutions to flow between culture plates when the entire pan tilts.

Tray stacks
Composed of many culture plates interconnected by flow ducts. Trays are stacked but do not touch.

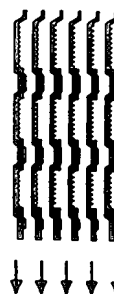
Automated actions



Fill
Jets fill trays with solution



Wash and drain
Tray stacks tilt to allow solutions to drain during washing or media changes. Jets add fresh solution to trays while wash solutions are drained and discarded. Detached cell mixtures are collected.



Drain and collect
Tray stacks tilt to vertical to maximize detached cell collection during harvest.

FIG.15

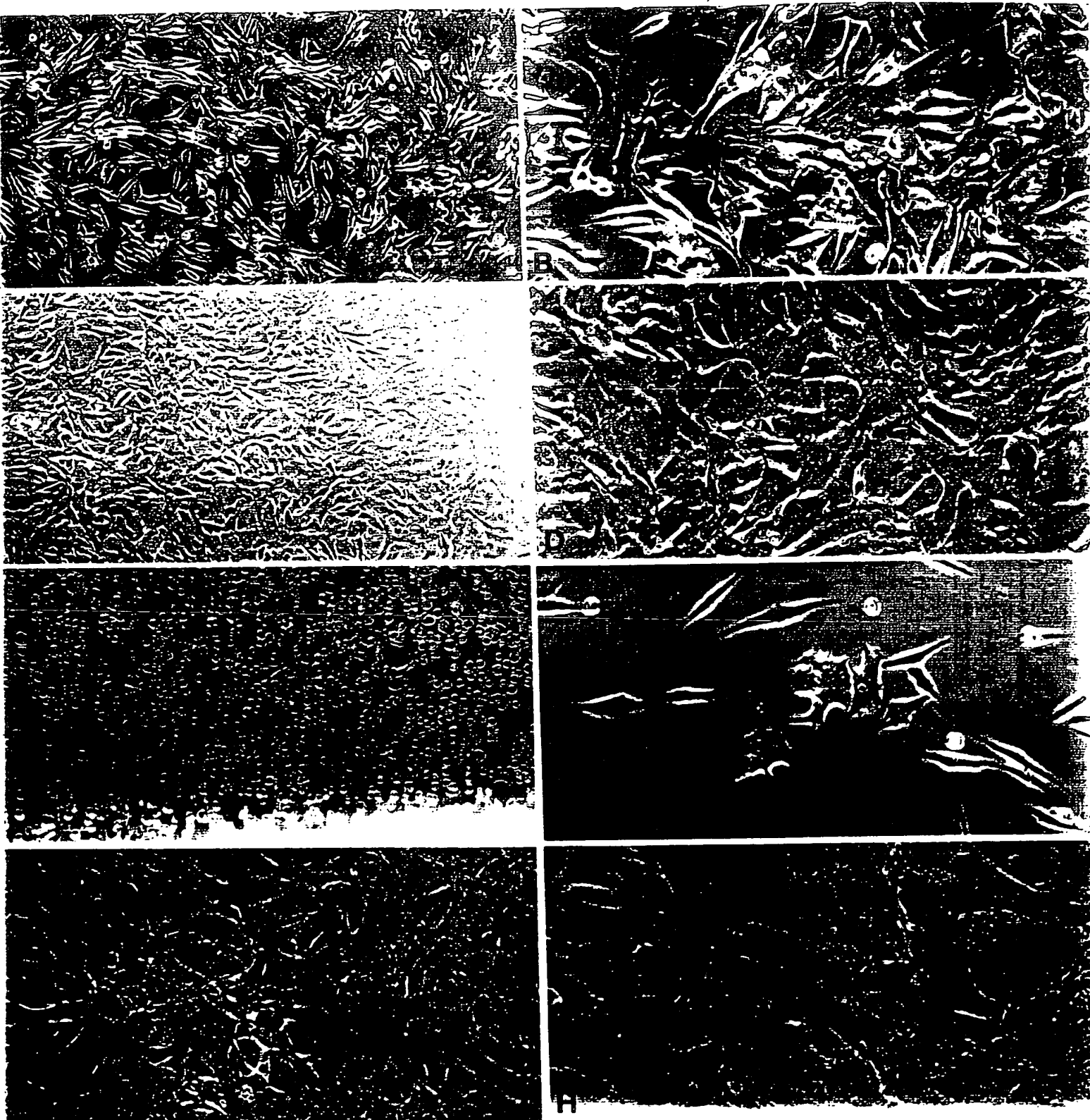


FIG.16

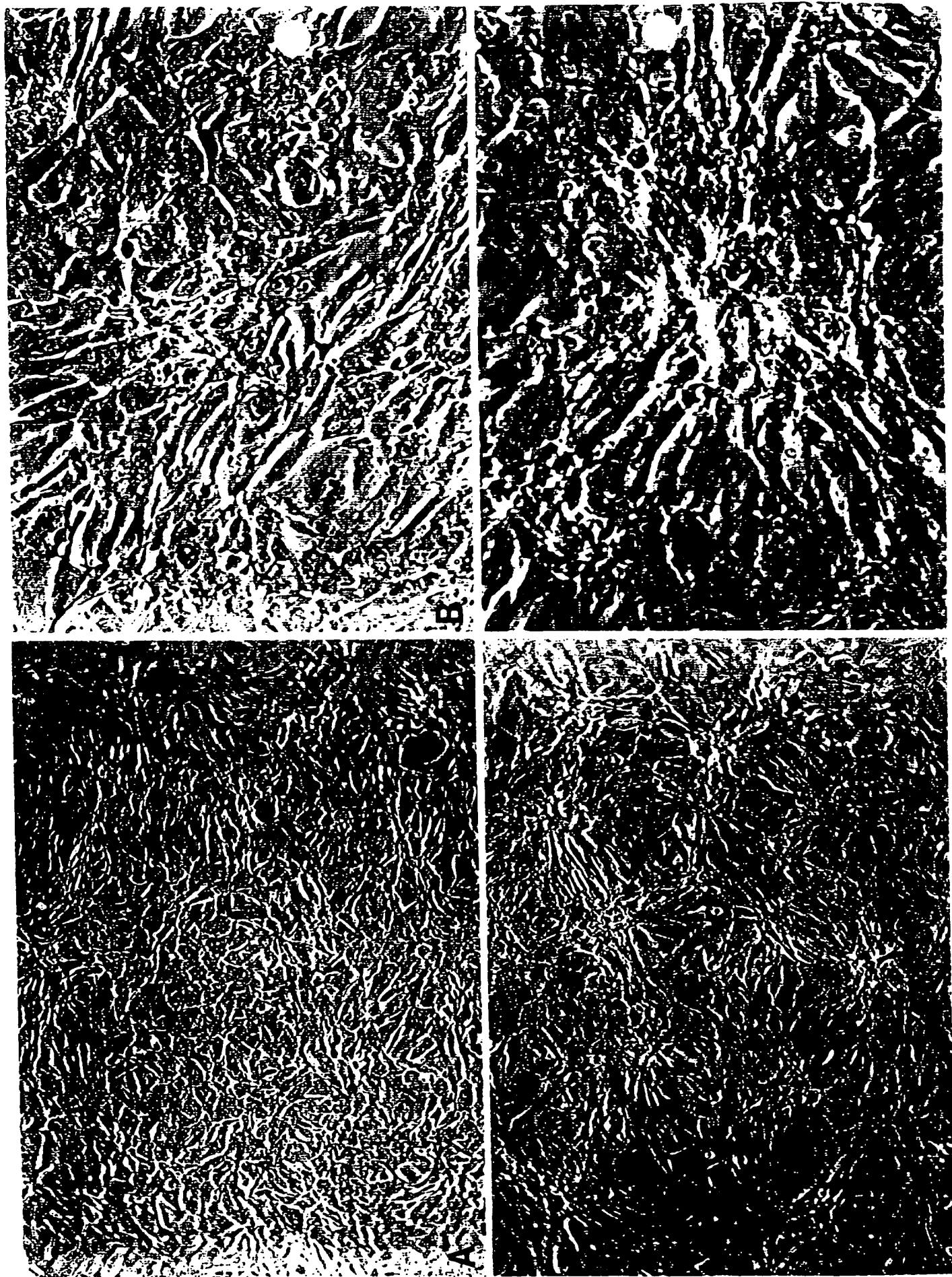
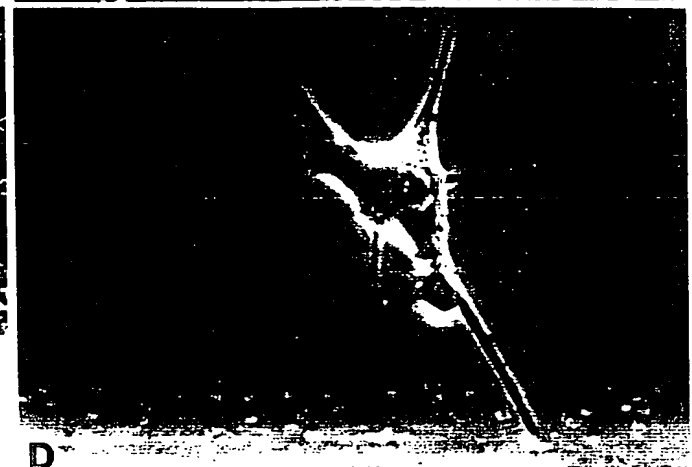
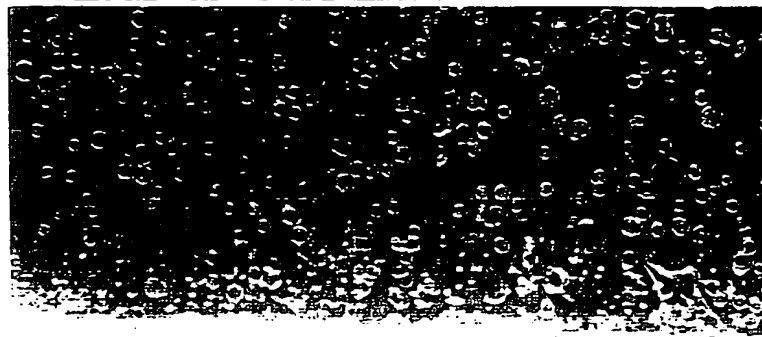
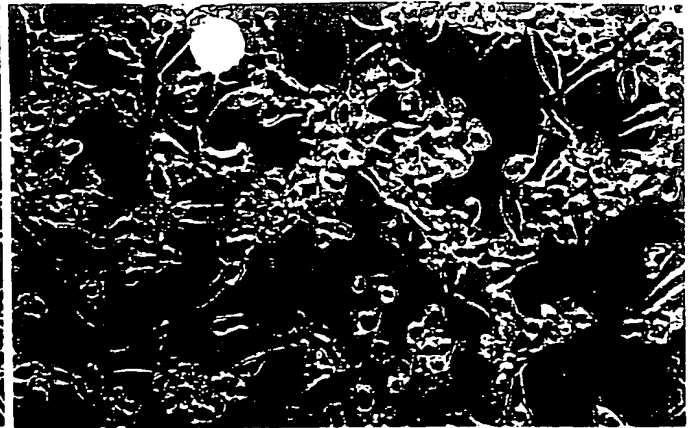
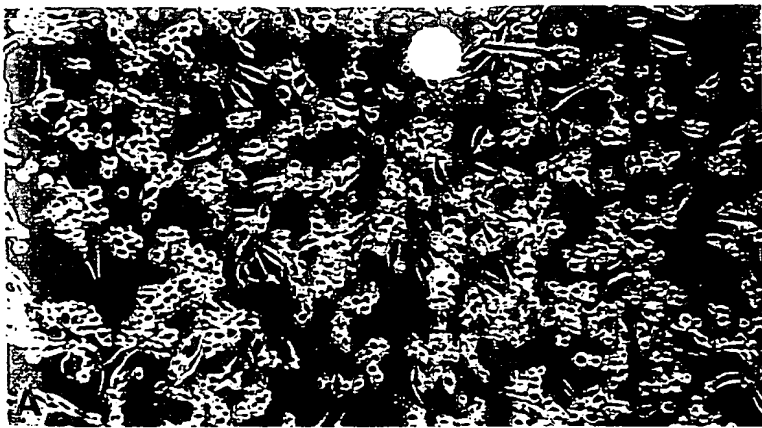


FIG.17



C

D

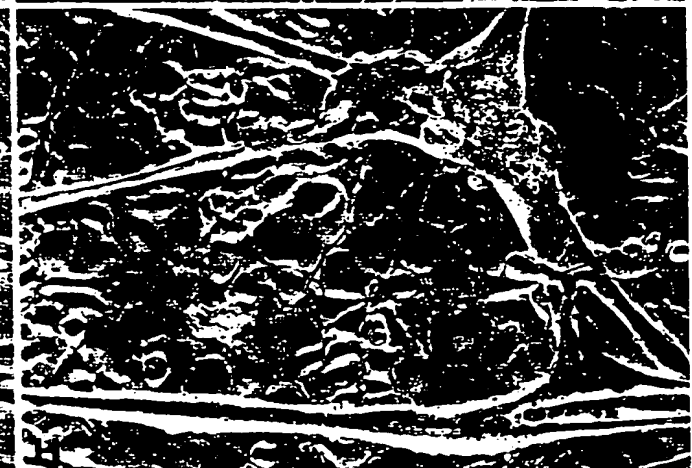
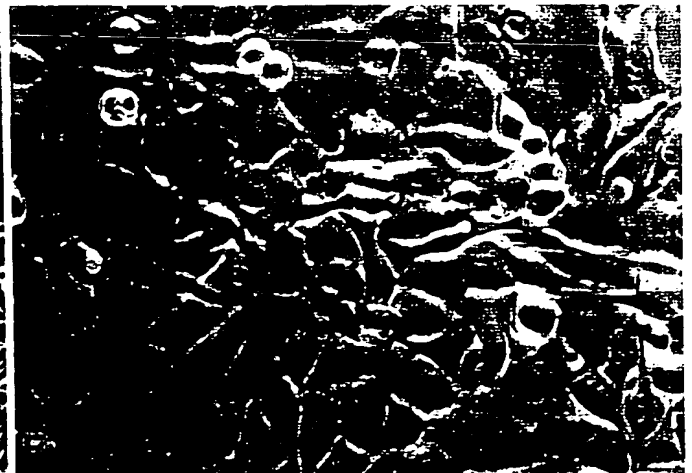
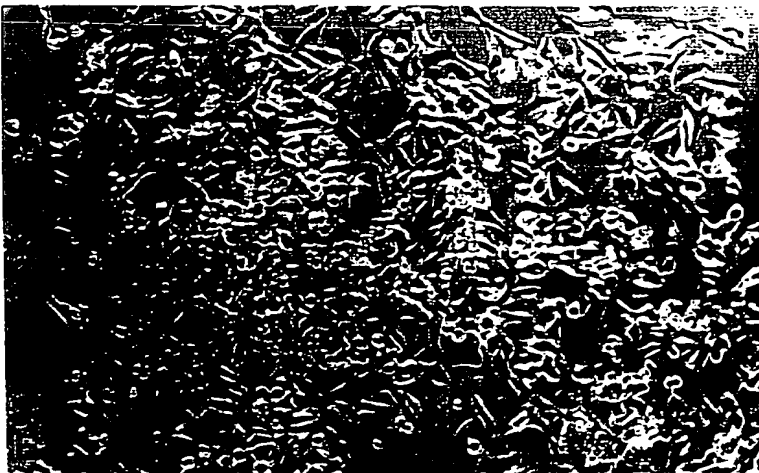


FIG. 18

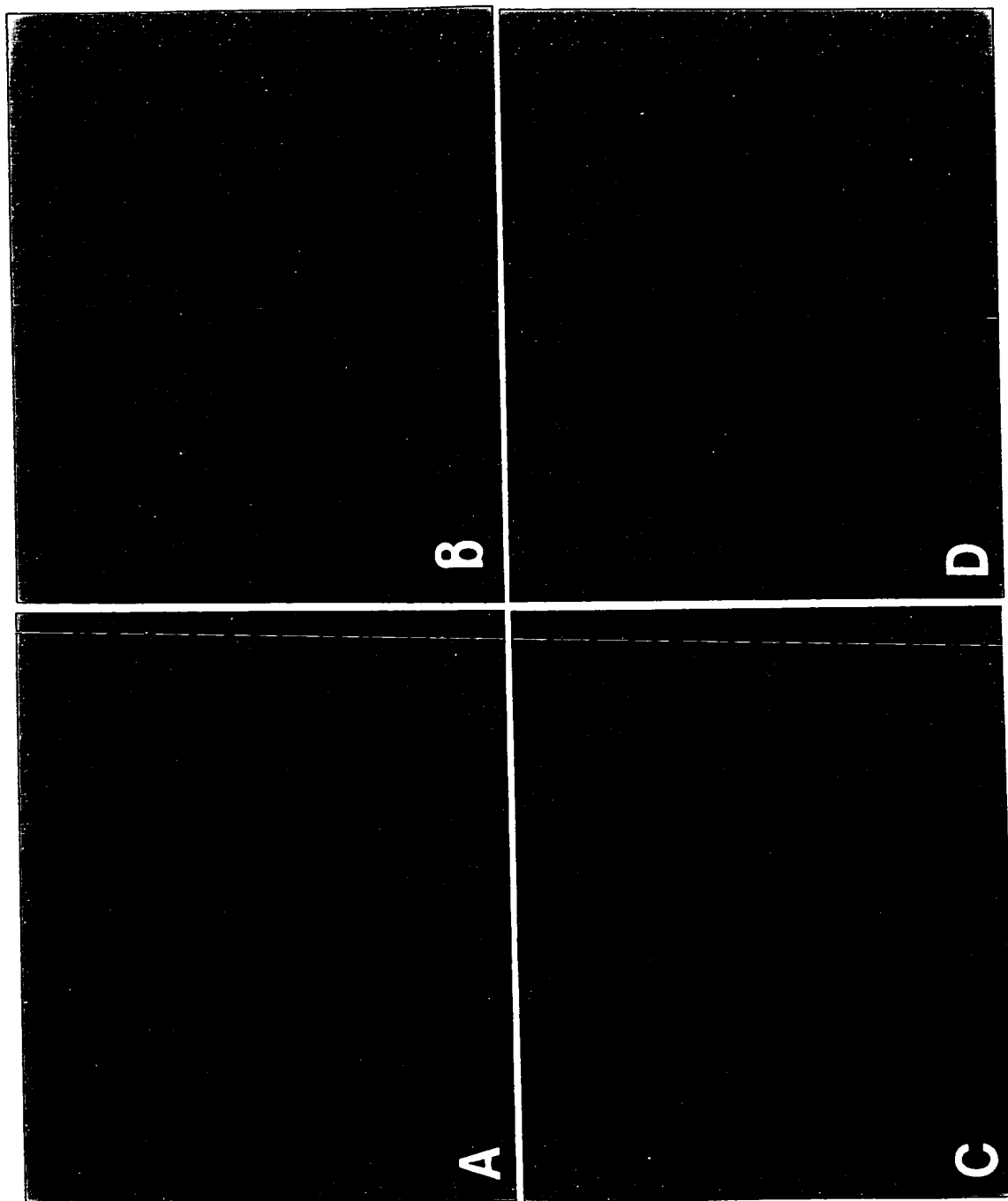


FIG.19

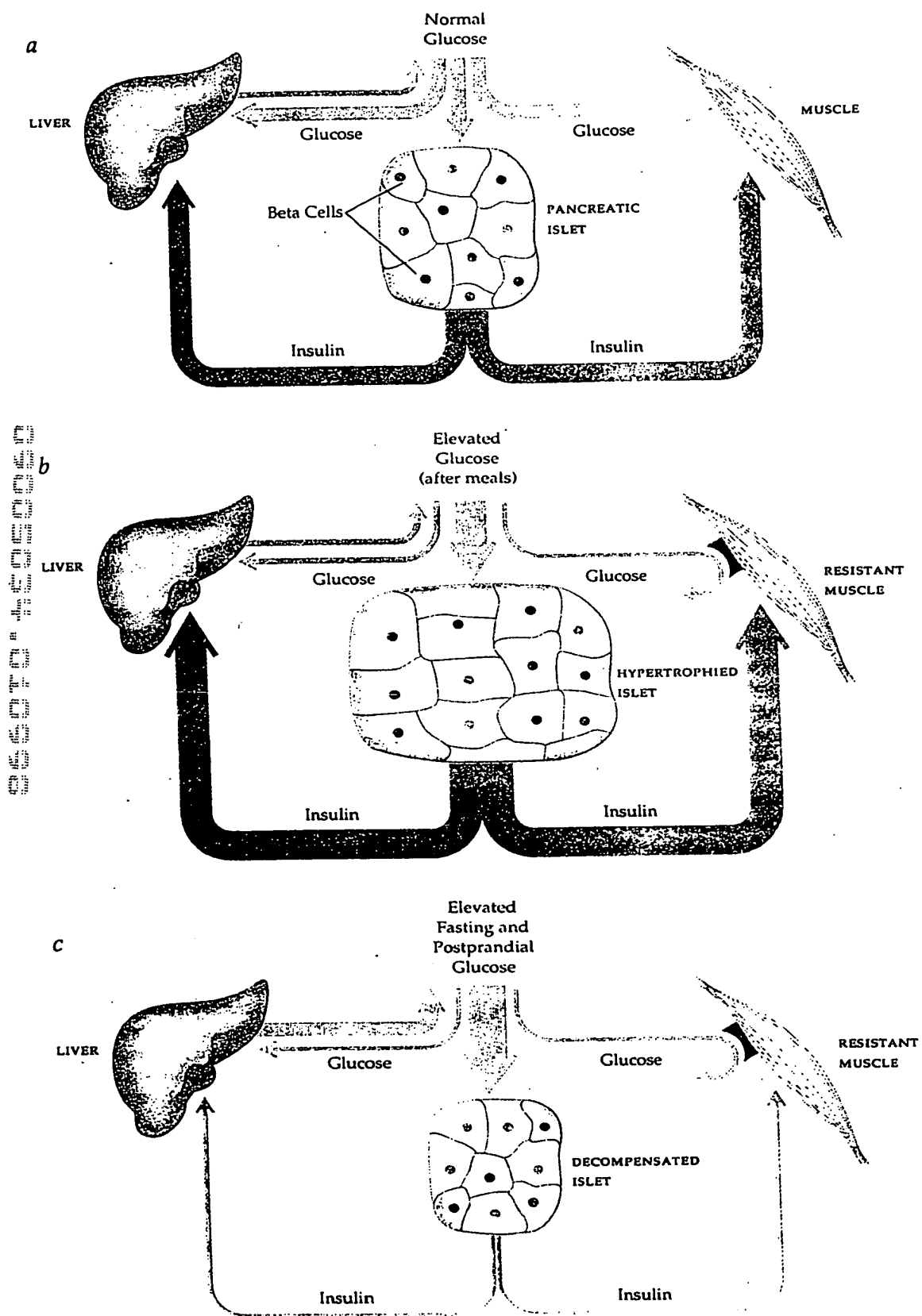


FIG. 20